Brian C Thomas

List of Publications by Year
in descending order

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42 papers	1,300 citations	394286 19 h-index	360920 35 g-index
45 all docs	45 docs citations	45 times ranked	772 citing authors

#	Article	IF	Citations
1	Gamma-rays from ultracompact minihaloes: effects on the Earthâ€™s atmosphere and links to mass extinction events. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3523-3533.	1.6	0
2	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact â^¼12,800 Years Ago: A Reply. Journal of Geology, 2020, 128, 95-107.	0.7	7
3	Supernova triggers for end-Devonian extinctions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21008-21010.	3.3	37
4	From Cosmic Explosions to Terrestrial Fires? A Reply. Journal of Geology, 2020, 128, 393-393.	0.7	0
5	Climate change via CO₂ drawdown from astrophysically initiated atmospheric ionization?. International Journal of Astrobiology, 2020, 19, 349-352.	0.9	6
6	Ozone depletion-induced climate change following a 50 pc supernova. Physical Review Research, 2020, 2, .	1.3	4
7	Gamma-ray bursts: not so much deadlier than we thought. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1970-1973.	1.6	0
8	From Cosmic Explosions to Terrestrial Fires?. Journal of Geology, 2019, 127, 475-481.	0.7	19
9	Photobiological Effects at Earth's Surface Following a 50â€‰pc Supernova. Astrobiology, 2018, 18, 481-490.	1.5	19
10	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact â^¼12,800 Years Ago. 1. Ice Cores and Glaciers. Journal of Geology, 2018, 126, 165-184.	0.7	43
11	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact â^¼12,800 Years Ago. 2. Lake, Marine, and Terrestrial Sediments. Journal of Geology, 2018, 126, 185-205.	0.7	65
12	Terrestrial effects of moderately nearby supernovae. Lethaia, 2018, 51, 325-329.	0.6	7
13	Radiation as a Constraint for Life in the Universe. , 2018, , 27-46.		3
14	Inhibition by ultraviolet and photosynthetically available radiation lowers model estimates of depthâ€integrated picophytoplankton photosynthesis: global predictions for Prochlorococcus and Synechococcus. Global Change Biology, 2017, 23, 293-306.	4.2	19
15	A Supernova at 50 pc: Effects on the Earth's Atmosphere and Biota. Astrophysical Journal, 2017, 840, 105.	1.6	44
16	Solar Irradiance Changes and Phytoplankton Productivity in Earth's Ocean Following Astrophysical Ionizing Radiation Events. Astrobiology, 2016, 16, 245-258.	1.5	23
17	Atmospheric constituents and surface-level UVB: Implications for a paleoaltimetry proxy and attempts to reconstruct UV exposure during volcanic episodes. Earth and Planetary Science Letters, 2016, 453, 141-151.	1.8	10
18	Atmospheric ionization by highâ€fluence, hardâ€spectrum solar proton events and their probable appearance in the ice core archive. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3017-3033.	1.2	18

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19	TERRESTRIAL EFFECTS OF NEARBY SUPERNOVAE IN THE EARLY PLEISTOCENE. Astrophysical Journal Letters, 2016, 826, L3.	3.0	59
20	Ground-Level Ozone Following Astrophysical Ionizing Radiation Events: An Additional Biological Hazard?. Astrobiology, 2016, 16, 1-6.	1.5	18
21	Solar Irradiance Changes and Photobiological Effects at Earth's Surface Following Astrophysical Ionizing Radiation Events. Astrobiology, 2015, 15, 207-220.	1.5	26
22	Terrestrial effects of possible astrophysical sources of an AD 774â€“775 increase in ¹⁴C production. Geophysical Research Letters, 2013, 40, 1237-1240.	1.5	58
23	Getting the Swing of Surface Gravity. Physics Teacher, 2012, 50, 232-233.	0.2	1
24	Causes of an ad 774â€“775 14C increase. Nature, 2012, 491, E1-E2.	13.7	89
25	Astrophysical Ionizing Radiation and Earth: A Brief Review and Census of Intermittent Intense Sources. Astrobiology, 2011, 11, 343-361.	1.5	91
26	Cometary airbursts and atmospheric chemistry: Tunguska and a candidate Younger Dryas event. Geology, 2010, 38, 355-358.	2.0	27
27	Lookup tables to compute high energy cosmic ray induced atmospheric ionization and changes in atmospheric chemistry. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 008-008.	1.9	23
28	Atmospheric consequences of cosmic ray variability in the extragalactic shock model: 2. Revised ionization levels and their consequences. Journal of Geophysical Research, 2010, 115, .	3.3	11
29	An In-Class Discussion Activity on the Nature of Science and Intelligent Design. Physics Teacher, 2009, 47, 106-109.	0.2	3
30	Gamma-ray bursts as a threat to life on Earth. International Journal of Astrobiology, 2009, 8, 183-186.	0.9	17
31	Late Ordovician geographic patterns of extinction compared with simulations of astrophysical ionizing radiation damage. Paleobiology, 2009, 35, 311-320.	1.3	74
32	Atmospheric consequences of cosmicâ€ray variability in the extragalactic shock model. Journal of Geophysical Research, 2008, 113, .	3.3	8
33	Superluminous Supernovae: No Threat from Î· Carinae. Astrobiology, 2008, 8, 9-16.	1.5	18
34	Amphibian Nitrate Stress as an Additional Terrestrial Threat from Astrophysical Ionizing Radiation Events?. Astrobiology, 2008, 8, 731-733.	1.5	18
35	Terrestrial Consequences of Spectral and Temporal Variability in Ionizing Photon Events. Astrophysical Journal, 2007, 654, 373-384.	1.6	44
36	Modeling atmospheric effects of the September 1859 solar flare. Geophysical Research Letters, 2007, 34, .	1.5	44

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37	Gamma-ray bursts and terrestrial planetary atmospheres. New Journal of Physics, 2006, 8, 120-120.	1.2	15
38	Terrestrial Ozone Depletion due to a Milky Way Gamma-Ray Burst. Astrophysical Journal, 2005, 622, L153-L156.	1.6	49
39	Gammaâ€Ray Bursts and the Earth: Exploration of Atmospheric, Biological, Climatic, and Biogeochemical Effects. Astrophysical Journal, 2005, 634, 509-533.	1.6	107
40	Climatic and biogeochemical effects of a galactic gamma ray burst. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	24
41	Did a gamma-ray burst initiate the late Ordovician mass extinction?. International Journal of Astrobiology, 2004, 3, 55-61.	0.9	147
42	Quantifying the Bullâ€™sâ€Eye Effect. Astrophysical Journal, 2004, 601, 28-36.	1.6	5